

Customer No.: 31561
Application No.: 10/604,571
Docket NO.: 10676-US-PA

In The Claims:

Claim 1. (currently amended) A structure of color filter, comprising:

a substrate;

a black matrix (BM), disposed over the substrate, wherein the BM includes grid regions exposing the substrate; and

a plurality of color film layers, disposed within the grid regions, wherein a width a of an overlapping region between the color film layers and the BM is 0-6.0 microns, wherein a thickness of the color film layers is equal to a thickness of the BM, and a thickness b of the color film layers at the overlapping region is 0-1.0 microns.

Claim 2. (cancelled)

Claim 3. (original) The structure of claim 1, wherein the substrate is a transparent substrate.

Claim 4. (original) The structure of claim 1, wherein the BM includes light shielding resin.

Claim 5. (original) The structure of claim 1, wherein the BM includes Cr metal

Claim 6. (original) The structure of claim 1, wherein color film layers comprises red film layers, green film layers, and blue film layers.

Claim 7. (currently amended) The structure of claim 6, wherein the red film layers, the green film layers, and the blue film layers are arranged into a ~~type selected from the group consisting of mosaic type, stripe type, four-pixel type, and triangle type.~~

Claim 8. (original) The structure of claim 1, further comprising a common electrode, directly disposed on the BM and the color film layers.

Claim 9. (original) The structure of claim 1, wherein the common electrode

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includes indium tin oxide or indium zinc oxide.

Claim 10. (cancelled)

Claim 11. (currently amended) A method for fabricating a color filter, comprising:

providing a substrate;

forming a black matrix (BM) and color film layers over the substrate, wherein a width a of an overlapping region between the color film layers and the BM, a thickness b of the color film layers at the overlapping region, ~~a thickness c of the color film layers,~~ and ~~a thickness d of the BM~~ are controlled to have $a = 0 - 6.0$ microns and $b = 0 - 1.0$ microns, ~~$c = d$~~ wherein a thickness of the color film layers is equal to a thickness of the BM; and

forming a common electrode directly over the BM and the color film layers.

Claim 12. (new) The structure of claim 6, wherein the red film layers, the green film layers, and the blue film layers are arranged into a stripe type.

Claim 13. (new) The structure of claim 6, wherein the red film layers, the green film layers, and the blue film layers are arranged into a four pixel type.

Claim 14. (new) The structure of claim 6, wherein the red film layers, the green film layers, and the blue film layers are arranged into a triangle type.